



IFW

Certificate of Mailing:

I, the undersigned, certifies that this correspondence is being sent via first-class mail, postage prepaid, in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, this 13th day of July, 2004.

(s)

Linda S. Evans

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

|             |  |               |             |
|-------------|--|---------------|-------------|
| Applicant:  | Darrow et al.                          | Atty. Docket: | ORT1273DIV1 |
| Serial No.: | 10/803,530                             | Art Unit:     | 2673        |
| Filed:      | March 17, 2004                         | Examiner:     | unknown     |
| For:        | DNA Encoding Human Serine Protease D-G |               |             |

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

Sir:

Pursuant to 37 C.F.R. § 1.56 and in accordance with 37 C.F.R. §§ 1.97-1.98, Applicant submits the accompanying Form PTO-1449 citing references relating to the application.

This Statement is being filed under the provisions of 37 C.F.R. § 1.97(b)(3), i.e., before the mailing of a first Office Action on the merits. In the event that a first Office Action on the merits has been mailed, then this Statement is being filed under 37 C.F.R. § 1.97(c)(2) and the Commissioner is requested to charge Deposit Account No. 10-0750 for the \$180.00 fee set forth in 37 C.F.R. § 1.17(p).

A copy of each reference listed on the Form PTO-1449 is enclosed. Each reference is in the English language, except for WO 98/49326, which includes an English-language abstract. Applicant also notes that US 2003/166162, which is an English-language reference in the patent family of WO 98/49326, is included in the enclosed


references. Additionally, copies of a Supplementary Partial European Search Report and the International Search Report and Written Opinion from foreign applications corresponding to the present application, which cite various of the references listed on Form PTO-1449, are enclosed.

This Statement should not be construed as an admission that any information provided herewith is material as that term is defined in 37 C.F.R. § 1.56(b) or that any of the cited references qualifies as prior art. This Statement should not be construed as a representation that a search has been made, or that information more material does not exist.

The Examiner is respectfully requested to initial the citations on the Form PTO-1449 to confirm consideration of each reference.

Respectfully submitted,

Date: July 13, 2004

  
Linda S. Evans  
Reg. No. 33,873

Johnson & Johnson  
One Johnson & Johnson Plaza  
New Brunswick, New Jersey 08933-7003  
(858) 320-3406

FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

SERIAL NO.

ORT1273DIV1

10/803,530

**INFORMATION DISCLOSURE  
CITATION BY APPLICANT**

(Use several sheets if necessary)

APPLICANT

Darrow et al.

FILING DATE

March 17, 2004

GROUP ART UNIT

2673

**U.S. PATENT DOCUMENTS**

| EXAMINER<br>INITIAL |  | DOCUMENT NUMBER | DATE | INVENTORS | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
|---------------------|--|-----------------|------|-----------|-------|----------|-------------------------------|
|                     |  |                 |      |           |       |          |                               |
|                     |  |                 |      |           |       |          |                               |

**FOREIGN PATENT DOCUMENTS**

|  |  | DOCUMENT NUMBER | DATE | COUNTRY/REGION | CLASS | SUBCLASS | TRANSLATION<br>(if applicable) |
|--|--|-----------------|------|----------------|-------|----------|--------------------------------|
|  |  |                 |      |                |       |          |                                |
|  |  |                 |      |                |       |          |                                |

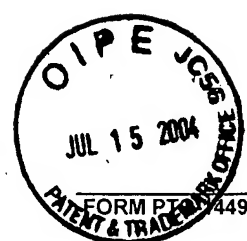
**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

|  |  |   |
|--|--|---|
|  |  | Database GENEMBL Accession No. AF216312, Smeekens et al., "MT-SP2, A Novel Type II Membrane Serine Protease Expressed In Trachea, Colon and Small Intestine: Identification, Cloning, And Chromosomal Localization" (2000). |
|  |  | Davie et al., "The Coagulation Cascade: Initiation, Maintenance, And Regulation," <i>Biochemistry</i> , Vol. 30(43), pp. 10363-10370 (1991).  |
|  |  | Ishii et al., "Kinetics Of Thrombin Receptor Cleavage On Intact Cells," <i>J. Biol. Chem.</i> , Vol. 268(13), pp. 9780-9786 (1993).   |
|  |  | Kuhn et al., "The Baculovirus Expression Vector pBSV-8His Directs Secretion Of Histidine-Tagged Proteins," <i>Gene</i> , Vol. 162, pp. 225-229 (1995).  |
|  |  | Leytus et al., "A Novel Trypsin-like Serine Protease (Hepsin) With A Putative Transmembrane Domain Expressed By Human Liver And Hepatoma Cells," <i>Biochemistry</i> , Vol. 27, pp. 1067-1074 (1988).                       |
|  |  | Paoloni-Giacobino et al., "Cloning Of The TMPRSS2 Gene, Which Encodes A Novel Serine Protease With Transmembrane, LDLRA, And SRCR Domains And Maps To 21q22.3," <i>Genomics</i> , Vol. 44, pp. 309-320 (1997).              |
|  |  | Proud et al., "Kinin Formation: Mechanisms And Role In Inflammatory Disorders," <i>Annu. Rev. Immunol.</i> , Vol. 6, pp. 49-83 (1988).  |
|  |  | Reid et al., "The Proteolytic Activation Systems Of Complement," <i>Ann. Rev. Biochem.</i> , Vol. 50, pp. 433-464 (1981).   |

EXAMINER

DATE CONSIDERED

**EXAMINER:** Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Sheet 1 of 2

FORM PT 449

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

SERIAL NO.

ORT1273DIV1

10/803,530

**INFORMATION DISCLOSURE  
CITATION BY APPLICANT**

(Use several sheets if necessary)

APPLICANT

Darrow et al.

FILING DATE

March 17, 2004

GROUP ART UNIT

2673

**U.S. PATENT DOCUMENTS**

| EXAMINER<br>INITIAL |      | DOCUMENT NUMBER | DATE              | INVENTORS          | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
|---------------------|------|-----------------|-------------------|--------------------|-------|----------|-------------------------------|
|                     | US   | 5 2 0 0 3 4 0   | 6 April 1993      | Foster et al.      |       |          |                               |
|                     | US   | 5 6 6 5 5 6 6   | 9 September 1997  | La Vallie          |       |          |                               |
|                     | US   | 6 2 0 3 9 7 9   | 20 March 2001     | Bandman et al.     |       |          |                               |
|                     | US03 | 0 1 6 6 1 6 2   | 04 September 2003 | Van Rooijen et al. |       |          |                               |

**FOREIGN PATENT DOCUMENTS**

|  |    | DOCUMENT NUMBER | DATE             | COUNTRY/REGION | CLASS | SUBCLASS | TRANSLATION<br>(if applicable) |
|--|----|-----------------|------------------|----------------|-------|----------|--------------------------------|
|  | WO | 9 7 4 7 7 3 7   | 18 December 1997 | WIPO (PCT)     |       |          | abstract                       |
|  | WO | 9 8 4 9 3 2 6   | 05 November 1998 | WIPO (PCT)     |       |          |                                |
|  | WO | 9 9 3 6 5 5 0   | 22 July 1999     | WIPO (PCT)     |       |          |                                |
|  | WO | 0 0 1 2 7 0 8   | 9 March 2000     | WIPO (PCT)     |       |          |                                |
|  | WO | 0 1 0 4 1 4 1   | 18 January 2001  | WIPO (PCT)     |       |          |                                |
|  | WO | 0 1 1 6 2 8 9   | 08 March 2001    | WIPO (PCT)     |       |          |                                |
|  | WO | 0 1 5 7 1 9 4   | 09 August 2001   | WIPO (PCT)     |       |          |                                |

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

|  |  |  |
|--|--|--|
|  |  | Database EMBL Accession No. AAX87154, Bandman et al., "Novel Human Protease Molecules Useful In The Treatment Of Developmental Disorders And/Or Cancers" (1999).   |
|  |  | Database EMBL Accession No. AAY06437, Bandman et al., "Novel Human Protease Molecules Useful In The Treatment Of Developmental Disorders And/Or Cancers" (1999).   |
|  |  | Database GENSEQ Accession No. AAY99417, Baker et al., "New Mammalian DNA Sequences Encoding Transmembrane, Receptor Or Secreted PRO Polypeptides, Useful For Screening Of Potential Peptide Or Small Molecule Inhibitors Of The Relevant Receptor/Ligand Interactions" (2000). |
|  |  | Database GENEMBL Accession No. AF179224, Wallrapp et al., "A Novel Transmembrane Serine Protease (TMPRSS3) Overexpressed In Pancreatic Cancer" (2000).   |

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



*Johnson & Johnson*

PHARMACEUTICAL RESEARCH  
& DEVELOPMENT, L.L.C.

3210 Merryfield Row  
San Diego, California 92121-1126

**Commissioner for Patents**  
**P.O. Box 1450**  
**Alexandria, VA 22313-1450**